

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Claims are repeated without any amendment:

1-2. (CANCELLED)

3. (PREVIOUSLY PRESENTED) A program guiding method in which a program list for channels is displayed on a screen of a digital television receiver in response to a program guide command, the method comprising:

acquiring program guide information of the accessible channels being broadcast from a tuner in response to the program guide command, wherein the accessible channels include a currently tuned in channel, a preferential channel, and remaining channels,- and wherein the program guide information is acquired by searching the accessible channels according to a past tendency of a user, wherein the past tendency of the user can be estimated by a probability estimator of the receiver;

storing the acquired program guide information;

writing a program list on the basis of the stored program guide information; and

displaying the written program list to a user in response to the program guide command, simultaneously with the acquiring of the program guide information,

wherein the currently tuned in channel is a channel corresponding to a program which is viewed immediately before the program guide command is executed, and wherein said acquiring of the program guide information is executed in response to the program guide command being input by the user.

4. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 3, further comprising providing a message indicating that the user must wait until the program list is written.

5. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 3, further comprising:

determining whether the program guide information is effective by comparing a current time to an effective period of stored program guide information, and proceeding to said writing the program list when the stored program guide information is effective, before said acquiring the program guide information.

6. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 3, wherein said acquiring the program guide information includes:

writing and displaying a program list including the program guide information of channels tuned before the program guide command is executed, from the stored program guide information, and

the acquiring from the accessible channels the program guide information for each channel comprises searching for the accessible channels in a same source as the viewed channel in a background operation while the program list is referred to.

7. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 3, wherein said acquiring the program guide information comprises determining the sequence of accessing channels by proximity of channels to the channel tuned before the program guide command is executed.

8. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 7, wherein said acquiring the program guide information comprises determining the order of priority of channels having the same proximity to the channel tuned before the program guide command is executed according to a channel up/down command input before corresponding channels are accessed.

9. (ORIGINAL) The program guiding method as claimed in claim 7, wherein an upward or downward direction is preferential when no channel up/down command is executed.

10. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 3, wherein said acquiring the program guide information comprises searching channels upward or downward from the channel tuned before the program guide command is executed.

11. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 3, further comprising writing a probability distribution of tuned channels, wherein said acquiring the program guide information comprises searching the channels in an order of priority according to a probability distribution of channels.

12. (PREVIOUSLY PRESENTED) A program guiding method, for use with a tuner, in which a program list for channels is displayed in response to a program guide command, the method comprising:

writing and displaying a program list including program guide information of a currently tuned in channel introduced via the tuner before a program guide command is executed and remaining accessible channels, from stored program guide information;

acquiring program guide information being broadcast for each of the channels from the tuner by searching for the accessible channels in a background operation while the written and displayed program list is referred to by a user, the displaying comprising displaying simultaneously with the acquiring of the program guide information, wherein the program guide information is acquired by searching the accessible channels according to a past tendency of a user;

storing the acquired program guide information for each of the channels;

rewriting a program list on the basis of the stored program guide information; and

displaying the rewritten program list to the user,

wherein the currently tuned in channel is a channel corresponding to a program which is viewed immediately before the program guide command is executed, and wherein said acquiring of the program guide information is executed in response to the program guide command being input by the user.

13. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 12, wherein said acquiring the guide information comprises determining a sequence of accessing the accessible channels by the proximity of the accessible channels to the currently tuned in channel before the program guide command is executed.

14. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 12, wherein said acquiring the guide information comprises determining an order of priority of the accessible channels having the same proximity to the currently tuned in channel according to a channel up/down command input before corresponding channels are accessed.

15. (ORIGINAL) The program guiding method as claimed in claim 13, wherein an upward or downward direction is preferential when no channel up/down command is applied.

16. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 12, wherein said acquiring the guide information comprises searching channels upward or downward from the currently tuned in channel before the program guide command is executed.

17. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 12, further comprising writing a probability distribution of channels which were previously tuned into, and wherein the channels are searched for in the order of priority according to the probability distribution of channels.

18. (PREVIOUSLY PRESENTED) The program guiding method as claimed in claim 12, wherein said displaying the written program list comprises

displaying a message indicating a status of program guide information in response to the program guide information of a corresponding channel not being stored, and

displaying the program guide information of a corresponding channel in response to acquiring the program guide information of the currently tuned in channel tuned before the program guide command is executed being acquired in said acquiring the program guide information.

19. (PREVIOUSLY PRESENTED) An apparatus for acquiring program guide information of accessible channels and guiding program guide information acquired in response to a program guide command in a multichannel receiver, the apparatus being for use with a tuner tuning a currently tuned in channel to be displayed, the currently tuned in channel being a channel corresponding to a program which is viewed immediately before the program guide command is executed, the apparatus comprising:

a program guide information detector detecting program guide information for the currently tuned in channel introduced via said tuner;

a memory storing the program guide information for each channel detected by said program guide information detector;

a key input introducing a user manipulation command such as a program guide command or a channel search command;

a microprocessor, in response to the manipulation command input via said key input, that writes a program list based on program guide information stored in said memory, and searches for remaining accessible channels to obtain program guide information being broadcast for the remaining accessible channels by controlling said tuner in a background operation while a user refers to the program list, wherein the program guide information is acquired by searching the remaining accessible channels according to a past tendency of a user;

a character signal generator generating a character signal corresponding to the program list written by said microprocessor and providing the character signal to a screen; and

a display to display the program list simultaneously with the detecting of the program guide information.

20. (PREVIOUSLY PRESENTED) The program guiding apparatus as claimed in claim 19, wherein said microprocessor determines the sequence of accessing remaining accessible channels by the proximity between the remaining accessible channels to the channel tuned before the program guide command is executed.

21. (PREVIOUSLY PRESENTED) The program guiding apparatus as claimed in claim 20, wherein said microprocessor determines the order of priority of the remaining accessible channels having the same proximity according to a user's channel up/down command input via said key input before corresponding channels are accessed.

22. (PREVIOUSLY PRESENTED) The program guiding apparatus as claimed in claim 21, wherein said microprocessor searches for remaining accessible channels preferentially in an upward or downward direction when no channel up/down command is executed.

23. (PREVIOUSLY PRESENTED) The program guiding apparatus as claimed in claim 19, wherein said microprocessor searches for remaining accessible channels upward or downward from the channel tuned before the program guide command is executed.

24. (PREVIOUSLY PRESENTED) The program guiding apparatus as claimed in claim 19, further comprising a probability estimator calculating a probability that channels are to be selected, by accumulating a number of times which the channels are tuned, wherein said microprocessor searches for the remaining accessible channels in an order of priority according to

a probability of tuning by the channels calculated by said probability estimator.

25. (PREVIOUSLY PRESENTED) The program guiding apparatus as claimed in claim 19, wherein said microprocessor provides to said character signal generator a status message on a message screen in response to the program guide information of a corresponding channel not being stored.

26. (CANCELLED)

27. (PREVIOUSLY PRESENTED) The program guiding method as recited in claim 3, wherein said acquiring the program guide information comprises determining the sequence of accessing channels by proximity of the remaining accessible channels to the channel tuned and by a channel up/down command input just before a channel search is determined.

28-36. (CANCELLED)

37. (PREVIOUSLY PRESENTED) The apparatus as claimed in claim 19, wherein the program guide information is shown on the screen while the program guide information is acquired by the multichannel receiver.

38. (PREVIOUSLY PRESENTED) A program guiding method for use with a tuner, in which a program list for each of a plurality of channels is displayed in response to a program guide command, the method comprising:

- writing and displaying the program list including program guide information of a currently tuned in channel introduced via the tuner before the program guide command is executed;

- acquiring program guide information being broadcast for each of the channels from the tuner by searching for the remaining accessible channels in a background operation while the written and displayed program list is referred to by a user, the displaying comprising displaying simultaneously with the acquiring of the program guide information, wherein the program guide information is acquired by searching the remaining accessible channels according to a past tendency of a user;

- storing the acquired program guide information for each of the channels;

- rewriting the program list on the basis of the stored program guide information; and

- displaying the rewritten program list to the user,

wherein the currently tuned in channel is a channel corresponding to a program which is viewed just before the program guide command is executed, and wherein said acquiring of the program guide information is executed in response to the program guide command being input by the user.

39. (PREVIOUSLY PRESENTED) A program guiding method in which a program list for channels is displayed in response to a program guide command, the method comprising:

acquiring program guide information of the accessible channels from a tuner in response to the program guide command, wherein the program guide information is acquired by searching the remaining accessible channels according to a past tendency of a user; and

simultaneously with the acquiring of the program guide information, displaying a program list including program guide information of channels obtained by the tuner before the program guide command is applied, in response to the program guide command.